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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/070,444	06/20/2002	Michael Baldischweiler	BALD3006/JEK	7565	
23364	7590 09/22/2004		EXAM	EXAMINER	
BACON & THOMAS, PLLC			BONZO, 1	BONZO, BRYCE P	
FOURTH FLO	ATERS LANE H FLOOR ART UNIT		PAPER NUMBER		
ALEXANDRIA, VA 22314			2114		
			DATE MAILED: 09/22/200	DATE MAILED: 09/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.



			\sim			
	Application No.	Applicant(s)	A/			
	10/070,444	BALDISCHWEILER, MICHAEL				
Office Action Summary	Examiner	Art Unit				
	Bryce P Bonzo	2114				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the d	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed /s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	y. ommunication.			
Status						
1)⊠ Responsive to communication(s) filed on 20 Ju	ıne 2002.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>20 June 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
	ammer, Note the attached Office	Action or ioin P1	O-152.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
<u> </u>	a) ☑ AII b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.					
_						
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau			-			
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate)-152)			
Paper No(s)/Mail Date 6) Other:						

NON-FINAL OFFICIAL ACTION

Status of the Claims

Claims 4 is rejected under 35 USC §112, second paragraph.

Claims 1, 2, 4 and 5 are rejected under 35 USC §102.

Claim 3 is rejected under 35 USC §103.

Rejection under 35 USC §112, second paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites the limitation "the return addresses" in lines 1-4. There is insufficient antecedent basis for this limitation in the claim. In normal programming, that is correct programming, there is only ever a single return address for a calling function. Further, the claim goes on to discuss limitations relating to a single address, without specifying which of the addresses is being described. Additionally, the first recitation of return addresses uses "the" prior to being introduced with "a".

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Rejections under 35 USC §102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Defensive Programming in Rapid Development of a Parallel Scientific Program by Cheng.

As per claim 1, Cheng discloses:

the calling program forms a first check sum for the parameters to be passed (page 668, ¶ 1, "It calculates the check sum ... tracing reduce debugging effort.")

said first check sum is stored in a specially provided memory (Page 668, ¶1, logs their values into a file"),

the called program forms, before its execution, a second check sum for the received parameters and checks it for equality with the first check sum (page 668, ¶1, "the checksum are computed again and in (6.2) their invariance is asserted."), and

in case of inequality of the first and second check sums the program is terminated or an error message outputted (Page 667, ¶2, "For catastrophic errors, the program writes out the state of important variables before exiting. For noncatastrophic errors, the program gives warnings, prints out important variables, and continues execution.")

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As per claim 4, Cheng discloses:

characterized in that the return addresses of the calling function are entered in a table (the Examiner interprets the table as being a stack, a stack is present in all modern computers and is used to hold temporary data as it is passed between routines) and the called program checks the return address reported by the calling program by check by checking the presence of said return address on the basis of the table (it is an inherent feature of a computer to store the return address in the stack and then confirm it is there by using it to end the called routine.) Applicant is advised that no features of the return address storage or checking have been tied to the same checking of checksums as present in claim 1.

Claims 2 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Akaishi (United States Patent No. 5,761,414).

As per claim 2, Akaishi discloses:

A method for protecting the program run at the call of subprograms, the called program performing, before or during the program execution, a check of data passed directly from the calling program, characterized in that

upon call of a subprogram a timer which counts the number of clock cycles required for executing the program (column 3, lines 16-52) and

terminates the program if the preset number of clocks cycles was exceeded before termination of the subprogram (column 3, lines 16-52).

As per claim 5, Akaishi discloses:

characterized in that the timer value is read at certain points (column 3, lines 32-60) and compared with a likewise preset intermediate value (column 3, lines 61 through column 4, lines 6) and program is terminated if the preset intermediate value was exceeded (column 4, lines 7-43).

Rejection under 35 USC §103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which, said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Defensive*Programming in Rapid Development of a Parallel Scientific Program by Cheng.

As per claim 3, Cheng does not explicitly disclose:

the memory area for storing the check sum is a RAM or register area. Cheng simply discloses the check sum is stored in a log file. Official Notice is given that it is well known to place diagnostic data, particularly short term transient data in RAM. This

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is often done as the time to access permanent storage is too great, the diagnostic data is only valuable for a short period of time, or the system simply lacks permanent storage. Thus it would have been obvious to one of ordinary skill in the art at the time of invention to implement the system of Cheng with RAM memory for storing the check sums to better adapt to the high speed software nature of routines calling each other, thus creating a faster system.

Allowable Matter

While the claims are presented are not allowable and do not contain allowable matter due breadth, the Examiner offers the following guidance to expedite prosecution:

Applicant is advised to review the specification, and based upon enablement requirements incorporate claim 4 in its entirety into claim 1 and explicitly specify the return address is the parameter for which a checksum is created. Applicant is reminded this guidance is non-binding, and the Examiner can not anticipate every variation which Applicant might claim the above subject matter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryce P Bonzo whose telephone number is (703) 305-4834 or upon moving to the new facilities in Alexandria (571) 272-3655. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (703) 305-9713 or upon moving to the new facilities in Alexandria (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bryce P Bonzo
Examiner
Art Unit 2114